

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/ 539,656
Source: IFWSP
Date Processed by STIC: 3/15/07

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/539,656

TIME: 10:56:14

Input Set : F:\Mar07.ST25.txt

Output Set: N:\CRF4\03152007\J539656.raw

```

3 <110> APPLICANT: Ares Trading S.A.
4     Fagan, Richard
5     Michalovich, David
6     White, Simon
7     Power, Christine
8     Yorke, Melanie
10 <120> TITLE OF INVENTION: Defensin Proteins
12 <130> FILE REFERENCE: C&R-109
14 <140> CURRENT APPLICATION NUMBER: 10/539,656
15 <141> CURRENT FILING DATE: 2005-06-14
17 <150> PRIOR APPLICATION NUMBER: PCT/GB2004/000101
18 <151> PRIOR FILING DATE: 2004-01-13
20 <160> NUMBER OF SEQ ID NOS: 42
22 <170> SOFTWARE: PatentIn version 3.3
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 64
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <400> SEQUENCE: 1
30 atggccacaa ggagcgtcct cttggccctc gtggtcctta acttactctt ctatgttcca      60
32 ccag                                          64
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 22
37 <212> TYPE: PRT
38 <213> ORGANISM: Homo sapiens
40 <400> SEQUENCE: 2
42 Met Ala Thr Arg Ser Val Leu Leu Ala Leu Val Val Leu Asn Leu Leu
43 1           5           10           15
46 Phe Tyr Val Pro Pro Gly
47           20
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 170
52 <212> TYPE: DNA
53 <213> ORGANISM: Homo sapiens
55 <400> SEQUENCE: 3
56 gtagaagtgg acccaatgtc tacatacaaa aaatctttgc ttcattgttg cgactgcaag      60
58 gtacttgccg gccaaaatgt ctaaaaaacg aacaatatcg tattttgtgt gatactatac      120
60 atttggtgctg tgtaaacca aaatatctac ctatactgac tgggaaatag      170
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 55
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapiens
68 <400> SEQUENCE: 4

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/539,656

DATE: 03/15/2007

TIME: 10:56:14

Input Set : F:\Mar07.ST25.txt

Output Set: N:\CRF4\03152007\J539656.raw

```

70 Arg Ser Gly Pro Asn Val Tyr Ile Gln Lys Ile Phe Ala Ser Cys Trp
71 1          5          10          15
74 Arg Leu Gln Gly Thr Cys Arg Pro Lys Cys Leu Lys Asn Glu Gln Tyr
75          20          25          30
78 Arg Ile Leu Cys Asp Thr Ile His Leu Cys Cys Val Asn Pro Lys Tyr
79          35          40          45
82 Leu Pro Ile Leu Thr Gly Lys
83          50          55
86 <210> SEQ ID NO: 5
87 <211> LENGTH: 234
88 <212> TYPE: DNA
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 5
92 atggccacaa ggagcgtcct cttggccctc gtggtcctta acttactctt ctatgttcca      60
94 ccaggtagaa gtggacccaa tgtctacata caaaaaatct ttgcttcatt ttggcgactg      120
96 caaggtactt gccggccaaa atgtctaaaa aacgaacaat atcgtatttt gtgtgatact      180
98 atacatttgt gctgtgtaaa cccaaaatat ttacctatac tgactgggaa atag      234
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 77
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 6
108 Met Ala Thr Arg Ser Val Leu Leu Ala Leu Val Val Leu Asn Leu Leu
109 1          5          10          15
112 Phe Tyr Val Pro Pro Gly Arg Ser Gly Pro Asn Val Tyr Ile Gln Lys
113          20          25          30
116 Ile Phe Ala Ser Cys Trp Arg Leu Gln Gly Thr Cys Arg Pro Lys Cys
117          35          40          45
120 Leu Lys Asn Glu Gln Tyr Arg Ile Leu Cys Asp Thr Ile His Leu Cys
121          50          55          60
124 Cys Val Asn Pro Lys Tyr Leu Pro Ile Leu Thr Gly Lys
125 65          70          75
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 162
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 7
134 ggacccaatg tctacataca aaaaatcttt gcttcattgt ggcgactgca aggtacttgc      60
136 cggccaaaat gtctaaaaaa cgaacaatat cgtattttgt gtgatactat acatttgtgc      120
138 tgtgtaaacc caaaatattt acctatactg actgggaaat ag      162
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 53
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 8
148 Gly Pro Asn Val Tyr Ile Gln Lys Ile Phe Ala Ser Cys Trp Arg Leu
149 1          5          10          15
152 Gln Gly Thr Cys Arg Pro Lys Cys Leu Lys Asn Glu Gln Tyr Arg Ile
153          20          25          30

```

RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/539,656

TIME: 10:56:14

Input Set : F:\Mar07.ST25.txt

Output Set: N:\CRF4\03152007\J539656.raw

```

156 Leu Cys Asp Thr Ile His Leu Cys Cys Val Asn Pro Lys Tyr Leu Pro
157      35                      40                      45
160 Ile Leu Thr Gly Lys
161      50
164 <210> SEQ ID NO: 9
165 <211> LENGTH: 55
166 <212> TYPE: DNA
167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 9
170 atgaacctct gtctttctgc attactcttc ttctgtgtga tcttactgcc ttcag      55
173 <210> SEQ ID NO: 10
174 <211> LENGTH: 19
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
178 <400> SEQUENCE: 10
180 Met Asn Leu Cys Leu Ser Ala Leu Leu Phe Phe Leu Val Ile Leu Leu
181 1              5                      10                      15
184 Pro Ser Gly
188 <210> SEQ ID NO: 11
189 <211> LENGTH: 182
190 <212> TYPE: DNA
191 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 11
194 gaaaagggtat gtttggaat gatggagtca aagttcgcac ctgcactagc cagaaagccg      60
196 tatgtttctt cgggtgtccg ccaggatata ggtggattgc gttctgccac aatattctgt      120
198 cttgctgtaa aaatatgaca cgttttcaac ccccgcaagc caaagatcca tgggttcatt      180
200 aa      182
203 <210> SEQ ID NO: 12
204 <211> LENGTH: 59
205 <212> TYPE: PRT
206 <213> ORGANISM: Homo sapiens
208 <400> SEQUENCE: 12
210 Lys Gly Met Phe Gly Asn Asp Gly Val Lys Val Arg Thr Cys Thr Ser
211 1              5                      10                      15
214 Gln Lys Ala Val Cys Phe Phe Gly Cys Pro Pro Gly Tyr Arg Trp Ile
215      20                      25                      30
218 Ala Phe Cys His Asn Ile Leu Ser Cys Cys Lys Asn Met Thr Arg Phe
219      35                      40                      45
222 Gln Pro Pro Gln Ala Lys Asp Pro Trp Val His
223      50                      55
226 <210> SEQ ID NO: 13
227 <211> LENGTH: 237
228 <212> TYPE: DNA
229 <213> ORGANISM: Homo sapiens
231 <400> SEQUENCE: 13
232 atgaacctct gtctttctgc attactcttc ttctgtgtga tcttactgcc ttcaggaaaa      60
234 ggtatgtttg ggaatgatgg agtcaaagtt cgcacctgca ctagccagaa agccgtatgt      120
236 ttcttcgggt gtccgccagg atacaggtgg attgcgttct gccacaatat tctgtcttgc      180
238 tgtaaaaata tgacacgttt tcaacccccg caagccaaag atccatgggt tcattaa      237

```

RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/539,656

TIME: 10:56:14

Input Set : F:\Mar07.ST25.txt

Output Set: N:\CRF4\03152007\J539656.raw

```

241 <210> SEQ ID NO: 14
242 <211> LENGTH: 78
243 <212> TYPE: PRT
244 <213> ORGANISM: Homo sapiens
246 <400> SEQUENCE: 14
248 Met Asn Leu Cys Leu Ser Ala Leu Leu Phe Phe Leu Val Ile Leu Leu
249 1 5 10 15
252 Pro Ser Gly Lys Gly Met Phe Gly Asn Asp Gly Val Lys Val Arg Thr
253 20 25 30
256 Cys Thr Ser Gln Lys Ala Val Cys Phe Phe Gly Cys Pro Pro Gly Tyr
257 35 40 45
260 Arg Trp Ile Ala Phe Cys His Asn Ile Leu Ser Cys Cys Lys Asn Met
261 50 55 60
264 Thr Arg Phe Gln Pro Pro Gln Ala Lys Asp Pro Trp Val His
265 65 70 75
268 <210> SEQ ID NO: 15
269 <211> LENGTH: 174
270 <212> TYPE: DNA
271 <213> ORGANISM: Homo sapiens
273 <400> SEQUENCE: 15
274 atgttttggga atgatggagt caaagttcgc acctgcacta gccagaaagc cgtatgtttc 60
276 ttccgggtgtc cgccaggata caggtggatt gcgtttctgcc acaatattct gtcttgctgt 120
278 aaaaatatga cacgttttca acccccgcaa gccaaagatc catgggttca ttaa 174
281 <210> SEQ ID NO: 16
282 <211> LENGTH: 57
283 <212> TYPE: PRT
284 <213> ORGANISM: Homo sapiens
286 <400> SEQUENCE: 16
288 Met Phe Gly Asn Asp Gly Val Lys Val Arg Thr Cys Thr Ser Gln Lys
289 1 5 10 15
292 Ala Val Cys Phe Gly Cys Pro Pro Gly Tyr Arg Trp Ile Ala Phe
293 20 25 30
296 Cys His Asn Ile Leu Ser Cys Cys Lys Asn Met Thr Arg Phe Gln Pro
297 35 40 45
300 Pro Gln Ala Lys Asp Pro Trp Val His
301 50 55
304 <210> SEQ ID NO: 17
305 <211> LENGTH: 20
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: INSP108-CP1 Primer
312 <400> SEQUENCE: 17
313 attggtatgg ccacaaggag 20
316 <210> SEQ ID NO: 18
317 <211> LENGTH: 22
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/539,656

TIME: 10:56:14

Input Set : F:\Mar07.ST25.txt

Output Set: N:\CRF4\03152007\J539656.raw

```

322 <223> OTHER INFORMATION: INSP108-CP2 Primer
324 <400> SEQUENCE: 18
325 cacaactatt tcccagtcag ta                                22
328 <210> SEQ ID NO: 19
329 <211> LENGTH: 37
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: INSP108-EX1 Primer
336 <400> SEQUENCE: 19
337 aagcaggctt cgccaccatg gccacaagga gcgtcct                37
340 <210> SEQ ID NO: 20
341 <211> LENGTH: 35
342 <212> TYPE: DNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: INSP108-EX2 Primer
348 <400> SEQUENCE: 20
349 gtgatggtga tgggtgtctg cctcctgcgt cttgt                35
352 <210> SEQ ID NO: 21
353 <211> LENGTH: 37
354 <212> TYPE: DNA
355 <213> ORGANISM: Artificial Sequence
357 <220> FEATURE:
358 <223> OTHER INFORMATION: GCP Forward Primer
360 <400> SEQUENCE: 21
361 ggggacaagt ttgtacaaaa aagcaggctt cgccacc                37
364 <210> SEQ ID NO: 22
365 <211> LENGTH: 51
366 <212> TYPE: DNA
367 <213> ORGANISM: Artificial Sequence
369 <220> FEATURE:
370 <223> OTHER INFORMATION: GCP Reverse Primer
372 <400> SEQUENCE: 22
373 ggggaccact ttgtacaaga aagctggggt tcaatgggtga tgggtgatggt g  51
376 <210> SEQ ID NO: 23
377 <211> LENGTH: 20
378 <212> TYPE: DNA
379 <213> ORGANISM: Artificial Sequence
381 <220> FEATURE:
382 <223> OTHER INFORMATION: pEAK12F Primer
384 <400> SEQUENCE: 23
385 gccagcttgg cacttgatgt                                20
388 <210> SEQ ID NO: 24
389 <211> LENGTH: 20
390 <212> TYPE: DNA
391 <213> ORGANISM: Artificial Sequence
393 <220> FEATURE:
394 <223> OTHER INFORMATION: pEAK12R Primer

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/539,656

DATE: 03/15/2007

TIME: 10:56:15

Input Set : F:\Mar07.ST25.txt

Output Set: N:\CRF4\03152007\J539656.raw